INFORMATION DISCLOSURE STATEMENT BY

PTO-1449

Sheet 1 of 5

Application No.: 10/756,820
Filing Date: January 13, 2004
First Named Inventor: James M. Bettridge

Art Unit: 3637

Examiner Name: Unassigned

Attorney Docket Number: 5915 P 005

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No. Kind Code (if known)	Name of Patentee or Applicant	Publication Date (MM-DD-YYYY)
ROS	US 4,158,875	Tajima et al.	06-19-1979
	US 4,261,519	Ester	04-14-1981
	US 4,352,274	Anderson et al.	10-05-1982
	US 4,434,625	Cree .	03-06-1984
	US 4,710,096	Erlam	12-01-1987
	US 4,774,631	Okuyama et al.	09-27-1988
	US 4,832,717	Peters	05-23-1989
	US 4,851,965	Gabuzda et al.	07-25-1989
	US 5,136,465	Benck et al.	08-04-1992
	US 5,285,347	Fox et al.	02-08-1994
	US 5,349,823	Solomon	09-27-1994
	US 5,428,503	Matsushima et al.	06-27-1995
	US 5,460,441	Hastings et al.	10-24-1995
	US 5,505,533	Kammersqard et al.	04-09-1996
	US 5,554,012	Koike	08-06-1996
	US 5,583,746	Wang	12-10-1996
	US 5,621,613	Haley et al.	04-15-1997
	US 5,657,641	Cunningham et al.	08-19-1997
	US 5,671,805	St.ang.hl et al.	09-30-1997
	US 5,684,674	Yin	11-04-1997
	US 5,706,668	Hilpert	01-13-1998
	US 5,718,628	Nakazato et al.	02-17-1998
	US 5,731,954	Cheon	03-24-1998
A	US 5,757,615	Donahoe et al.	05-26-1998

PTO-1449

Sheet 2 of 5

Application No.: 10/756,820
Filing Date: January 13, 2004
First Named Inventor: James M. Bettridge

Art Unit: 3637

Examiner Name: Unassigned Attorney Docket Number: 5915 P 005

Examiner Initial	Document No. Kind Code (if known)	Name of Patentee or Applicant	Publication Date (MM-DD-YYYY)
95	US 5,813,243	Johnson et al.	09-29-1998
77	US 5,823,005	Alexander et al.	10-20-1998
	US 5,927,094	Nickum	07-27-1999
	US 5,927,385	Yeh	07-27-1999
	US 5,931,002	Nagashima	08-03-1999
	US 5,949,646	Lee et al.	09-07-1999
	US 5,970,731	Hare et al.	10-26-1999
	US 5,987,890	Chiu et al.	11-23-1999
	US 6,011,688	Thornburg et al.	01-04-2000
	US 6,038,128	Hood, III et al.	03-14-2000
	US 6,052,282	Sugiyama et al.	04-18-2000
	US 6,088,225	Parry et al.	07-11-2000
	US 6,094,345	Diemunsch	07-25-2000
	US 6,108,203	Dittus et al.	08-22-2000
	US 6,109,039	Hougham et al.	08-29-2000
	US 6,118,655	Mecredy, III et al.	09-12-2000
	US 6,141,213	Antonuccio et al.	10-31-2000
	US 6,145,586	Lo	11-14-2000
	US 6,166,907	Chien	12-26-2000
	US 6,167,947	Hokanson et al.	01-02-2001
	US 6,181,556	Allman	01-30-2001
	US 6,186,890	French et al.	02-13-2001
	US 6,196,003	Macias et al.	03-06-2001
/.	US 6,198,628	Smith	03-06-2001
	US 6,213,194	Chrysler et al.	04-10-2001
$\square$	US 6,226,178	Broder et al.	05-01-2001

PTO-1449

Sheet 3 of 5

Application No.: 10/756,820
Filing Date: January 13, 2004
First Named Inventor: James M. Bettridge

Art Unit: 3637

Examiner Name: Unassigned
Attorney Docket Number: 5915 P 005

Examiner Initial	Document No. Kind Code (if known)	Name of Patentee or Applicant	Publication Date (MM-DD-YYYY)
1985	US 6,234,240	Cheon	05-22-2001
	US 6,374,627	Schumacher et al.	04-23-2002
	US 6,385,046	Ta et al.	05-07-2002
	US 6,407,916	Konstad	06-18-2002
	US 6,408,630	Macias et al.	06-25-2002
	US 6,412,292	Spinazzola et al.	07-02-2002
	US 6,462,944	Lin	10-08-2002
·	US 6,493,223	Viswanath et al.	12-10-2002
	US 6,494,050	Spinazzola et al.	12-17-2002
	US 6,496,366	Coglitore et al.	12-17-2002
	US 6,515,857	Ford et al.	02-04-2003
	US 6,525,935	Casebolt	02-25-2003
	US 6,542,361	Paradis	04-01-2003
	US 6,557,357	Spinazzola et al.	05-06-2003
	US 6,565,428	Hsiao	05-20-2003
	US 6,574,104	Patel et al.	06-03-2003
	US 6,574,970	Spinazzola et al.	06-10-2003
	US 6,614,657	Searls et al.	09-02-2003
	US 2001/0008071 A1	Macias et al.	07-19-2001
	US 2001/0029163 A1	Spinazzola et al.	10-11-2001
	US 2002/0007643 A1	Spinazzola et al.	01-24-2002
	US 2002/0008961 A1	Amaike et al.	01-24-2002
	US 2002/0059804 A1	Spinazzola et al.	05-23-2002
<b>1</b> ,	US 2002/0075642 A1	Nagashima et al.	06-20-2002
I.V	US 2002/0108386 A1	Spinazzola et al.	08-15-2002
M	US 2002/0117291 A1	Cheon	08-29-2002

PTO-1449

Sheet 4 of 5

Application No.: 10/756,820
Filing Date: January 13, 2004
First Named Inventor: James M. Bettridge

Art Unit: 3637

Examiner Name: Unassigned Attorney Docket Number: 5915 P 005

Examiner Initial	Document No. Kind Code (if known)	Name of Patentee or Applicant	Publication Date (MM-DD-YYYY)
1983	US 2002/0118514-A1	Coglitore et al	08-29-2002
	US 2002/0126449 A1	Casebolt	09-12-2002
	US 2002/0185262 A1	Baer	12-12-2002
	US 2002/0196604 A1	Lehman et al.	12-26-2002
	US 2003/0002251 A1	Grouell et al.	01-02-2003
	US 2003/0002254 A1	Faneuf et al.	01-02-2003
	US 2003/0011994 A1	Loebach	01-16-2003
	US 2003/0043542 A1	Monfarad	03-06-2003
	US 2003/0051859 A1	Chesser et al.	03-20-2003
	US 2003/0051860 A1	Montgomery et al.	03-20-2003
	US 2003/0067745 A1	Patel et al.	04-10-2003
	US 2003/0095381 A1	Lee et al.	05-22-2003
	US 2003/0110779 A1	Otey et al.	06-19-2003
	US 2003/0128511 A1	Nagashima et al.	07-10-2003
	US 2003/0128515 A1	Faneuf et al.	07-10-2003
	US 2003/0128516 A1	Faneuf et al.	07-10-2003
	US 2003/0128517 A1	Faneuf et al.	07-10-2003
1/	US 2003/0128525 A1	Berry et al.	07-10-2003
	US 2003/0147214 A1	Patel et al.	08-07-2003
A	US 2003/0150231 A1	Spinazzola et al.	08-14-2003

PTO-1449

Application No.: 10/756,820 Filing Date: January 13, 2004

First Named Inventor: James M. Bettridge

Art Unit: 3637

Examiner Name: Unassigned Sheet 5 of 5

Attorney Docket Number: 5915 P 005

## OTHER PRIOR ART OR NON-PATENT LITERATURE DOCUMENTS

Examiner Initial	(including Author (in capital letters), Title of the article, Title of the item, Date, Pages, Volume-Issue number, Publisher, City and/or Country where published.)	Т
Ø3	SPINAZZOLA, High delta cooling (HDTC, U.S. Patent 6,412,292; 6,494,050; 6,574,970; 6,557,357, other patents pending) provides increased energy efficiency and reliability for data centers, 2001, 12 pages, RTKL Associates Inc., Baltimore, Maryland.	
	Liebert® Rack Cooler™, 2001, 8 pages, Liebert Corporation, Columbus, Ohio.	
	Liebert® XDA Air Flow Enhancer, 2002, 2 pages, Liebert Corporation, Columbus, Ohio.	
·	Cooling Imperatives for Data Centers and Network Rooms, 2003, 10 pages, American Power Conversion.	
	Managing Extreme Heat Cooling Strategies for High-Density Computer Systems, January 28, 2003, 16 pages, Liebert Corporation, Columbus, Ohio.	
,	APW internet pages, September 25, 2003, 9 pages, APW, Waukesha, Wisconsin.	
	RTKL secures patent for method to cool computers, September 25, 2003, 2 pages, RTKL Associates Inc., Baltimore, Maryland.	
	1U rack mount cluster chassis servers MyriNet clustering connectivity, September 25, 2003, 2 pages, Computer & Control Solutions Inc.	
	Who is CCSI?, September 25, 2003, 2 pages, Computer & Control Solutions Inc.	
	CCSI's Clusteron™ Cooling Technology, September 25, 2003, 2 pages, Computer & Control Solutions Inc.	
	Knurr internet pages, Septermber 25, 2003, 7 pages, Knurr Inc.	
	HPS Technologies Home Page, September 25, 2003, 2 pages, HPS Technologies Limited, New Zealand.	
V	D.L. Custom internet pages, November 25, 2003, 18 pages, D.L. Custom Ltd., Canada.	

Date Considered:

5/27/05

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.